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Dated: 10/30/06

Signature:

(Valerie J. Sarosky)

Docket No.: LYMF-P04-007
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Roifman et al.

Application No.: 10/593,851

Confirmation No.: Not Yet Assigned

Filed: September 22, 2006

Art Unit: Not Yet Assigned

For: NOVEL COMPOUNDS FOR MODULATING
CELL PROLIFERATION

Examiner: Not Yet Assigned

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (SIDS)

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Supplemental Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as known to the undersigned (37 CFR 1.97(b)(3)).

A summary/abstract translation of non-English language references BO-BY, BA1-BB1, CU, CK1, CV1 and CG3 are enclosed.

Copies of (5) International Search Reports, four (4) International Preliminary Examination Reports and a European Office Action are enclosed.

In accordance with 37 CFR 1.98(a)(2)(ii), Applicants have not submitted copies of U.S. patents and U.S. patent applications. Applicants submit herewith copies of foreign patents documents and non-patent literature documents in accordance with 37 CFR 1.98(a)(2).

In accordance with 37 CFR 1.97(g), the filing of this Supplemental Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Supplemental Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Supplemental Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 18-1945, under Order No. LYMF-P04-007.

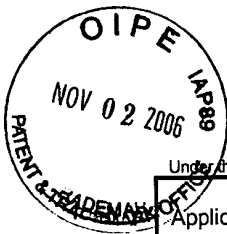
Dated: October 30, 2006

Respectfully submitted,

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Maya Escobar

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Application No. (if known): 10/593,851

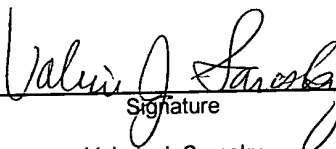
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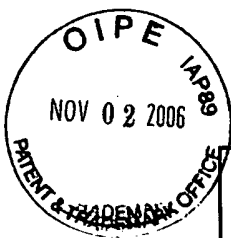
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Form PTO/SB/08a/b (146 References) (7 pages)
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Copies of International Search Reports (5)
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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/593,851
				Filing Date	September 22, 2006
				First Named Inventor	Chaim M. Roifman
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	1	of	7	Attorney Docket Number	LYMF-P04-007

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA	US-2,798,881	07-09-1957	Baer et al.	
	AB	US-3,047,606	07/1962	Wadsworth	
	AC	US-3,125,597	03-17-1964	Wahl et al.	
	AD	US-3,718,472	02-27-1973	OLIVER ET AL.	
	AE	US-3,852,683	12-03-1974	Webster et al.	
	AF	US-4,263,394	04-21-1981	Gates et al.	
	AG	US-4,554,238	11-19-1985	Bushman	
	AH	US-4,617,373	10-14-1986	Pruett et al.	
	AI	US-4,632,895	12-30-1986	Patel et al.	
	AJ	US-4,950,467	08-21-1990	Phalangas et al.	
	AK	US-5,196,147	03-23-1993	Taketani et al.	
	AL	US-5,196,446	03-23-1993	Levitcki et al.	
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	AN	US-5,318,939	06-07-1994	Laver et al.	
	AO	US-5,578,416	11-26-1996	Tutt	
	AP	US-5,656,655	08-12-1997	Spada et al.	
	AQ	US-5,677,329	10-14-1997	Spada et al.	
	AR	US-5,700,822	12-23-1997	Hirth et al.	
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	AT	US-5,712,395	01-27-1998	App et al.	
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	AX	US-5,792,771	08-11-1998	App et al.	
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	AZ	US-5,851,999	12-22-1998	Ullrich et al.	
	AA1	US-5,891,917	04-06-1999	Tang et al.	
	AB1	US-5,932,580	08-03-1999	Levitcki et al.	
	AC1	US-5,935,993	08-10-1999	Tang et al.	
	AD1	US-5,990,193	11-23-1999	Russell et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	† ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	BE	EP 0 731 697	09-18-1996			
	BF	EP 0 614 661	09-14-1994			
	BG	EP 0 570 594	11-24-1993			
	BH	EP 0 235 198	09-09-1987			
	BI	EP 0 125 866	11-21-1984			
	BJ	WO-96/40629	12-19-1996			
	BK	WO-95/26341	10-05-1995			
	BL	WO-95/24190	09-14-1995			
	BM	WO-95/14464	06-01-1995			
	BN	WO-94/10157	05-11-1999			

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Sheet	2	of	7	Attorney Docket Number	LYMF-P04-007

	BO	JP-9-230585	09-05-1997		
	BP	JP-60-244595	12-04-1985		
	BQ	JP-6-95186	04-08-1994		
	BR	JP-6-186599	07-08-1994		
	BS	JP-5-173206	07-13-1993		
	BT	JP-4-96026	03-27-1992		
	BU	JP-4-36731	02-06-1992		
	BV	JP-4-214387	08-05-1992		
	BW	JP-4-198924	07-20-1992		
	BX	JP-3-259126	11-19-1991		
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	BA1	JP-2-254425	10-15-1990		
	BB1	JP-2-193954	07-31-1990		
	BC1	CA-1,264,594	01-23-1990		
	BD1	WO-03/062190	07-31-2003		
	BE1	WO-03/030895-A1	04-17-2003	The Hospital for Sick Children	
	BF1	WO-01/79158-A2	10-25-2001	HSC Research and Development Limited Partnership	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
	CA	Abdel-Rahman (1991). "Inverse electron demand Diels-Alder reactions of electron-withdrawing-group-substituted 1,3-butadiene derivatives with enamines. Synthesis of cyclohexene derivatives," M.A. Sohag Pure Appl. Sci. Bull. 7:30-40, ACS abstract AN 118:212527 CA only.		
	CB	Adachi, T. et al. (1999). "A Novel Lyn-Binding Peptide Inhibitor Blocks Eosinophil Differentiation, Survival, and Airway Eosinophilic Inflammation," Journal of Immunology 163:939-946.		
	CC	Astle, M.J. and Gergel, W.C. "Catalysis with ion exchange resins. Knoevenagel condensations of cyanoacetic acid," Chemical Abstracts 51:2641g.		
	CD	Balalaie, S. and Nemati, N. (2000). "Ammonium acetate-basic alumina catalyzed Knoevenagel condensation under microwave irradiation under solvent-free condition," Synthetic Communications 30(5):869-875.		
	CE	Bandgar, B.P. et al. (1997). "Condensation of alpha-cyanothioacetamide with aldehydes catalyzed by Envirocat EPZG," Synthetic Communications 27(7):1153-1156.		
	CF	Banerjee PK and Amidon GL. (1985). "Design of prodrugs based on enzymes-substrate specificity," In Design of Prodrugs, Bundgaard H, ed. Elsevier: New York, pp. 93-133.		
	CG	Cabello, J.A. et al. (1984). "Knoevenagel Condensation in the Heterogeneous Phase Using AlPO4-Al2O3 as a New Catalyst," Journal of Organic Chemistry 49(26):5195-5197.		
Examiner Signature				Date Considered

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Sheet	3	of	7		

CH	Chen, J.J. and Wang I.J. (1995). "Synthesis and Fluorescence Behaviour of Some 3-Cyano-4-Substituted-6-Pyrenyl-2-Pyridone Derivatives," <i>Dyes and Pigments</i> . 27(3):249-259.
CI	Choudary, B.M. et al. (1999). "Knoevenagel and aldol condensations catalysed by a new diamino-functionalized mesoporous material," <i>Journal of Molecular Catalysis A: Chemical</i> 142(3):361-365.
CJ	Conqueret, Xavier (1999). "Photoreactivity of polymers with dimerizable side-groups: Kinetic analysis for probing morphology and molecular organization," <i>Macromolecular Chemistry and Physics</i> 200:1567-1579.
CK	Costisella, B., Gross, H. (1984). "alpha-Substituted phosphonates. 46. 1-Cyanodiene-1-amines and 1-cyanotriene-1-amines via the Horner reaction," <i>Z. Chem.</i> 24(10):383-384 (in German) and ACS Abstract AN 103:6414 CA.
CL	Dai, C. et al. (1982). "Structural effect in forked conjugative systems, Bifurcation-type of forked polyenic nitriles, carboxylic acids and esters," <i>Scientia Sinica. Series B, Chemical, biological, agricultural, medical & earth sciences / Chung-kuo k'o hshueh yuan, chu pan.</i> (Engl. ed.) 25(10):1023-1034.
CM	Database Crossfire Beilstein 'Online! Beilstein Institut Zur Foederung Der Chemischen Wissenschaften, Frankfurt Am Main, DE; Database Accession no. 1954179 (BRN), XP002179056
CN	Database Crossfire Beilstein 'Online! Beilstein Institut Zur Foederung Der Chemischen Wissenschaften, Frankfurt Am Main, DE; Database Accession no. 1959697 (BRN), XP002179057
CO	Database Crossfire Beilstein 'Online! Beilstein Institut Zur Foederung Der Chemischen Wissenschaften, Frankfurt Am Main, DE; Database Accession no. 1983526 (BRN), XP002179052
CP	Database Crossfire Beilstein 'Online! Beilstein Institut Zur Foederung Der Chemischen Wissenschaften, Frankfurt Am Main, DE; Database Accession no. 2329569 (BRN), XP002179053
CQ	Database Crossfire Beilstein 'Online! Beilstein Institut Zur Foederung Der Chemischen Wissenschaften, Frankfurt Am Main, DE; Database Accession no. 2331300 (BRN), XP002179051
CR	Database Crossfire Beilstein 'Online! Beilstein Institut Zur Foederung Der Chemischen Wissenschaften, Frankfurt Am Main, DE; Database Accession no. 5905971 (BRN), XP002179055
CS	Database Crossfire Beilstein 'Online! Beilstein Institut Zur Foederung Der Chemischen Wissenschaften, Frankfurt Am Main, DE; Database Accession no. 6696684 (BRN), XP002179054
CT	DeLombaert, S. and Ghosez, L. (1984). "Synthesis and phase-transfer mediated alkylations of 2-Diethylamino-4-Phenylsulfonyl-2-butenenitrile an efficient homoenolate equivalent," <i>Tetrahedron Letters</i> 25:3475-3478.
CU	DeSa, A.J., S.L. and Pitta, I. DaR (1979). "Synthesis and spectroscopic study of ethyl 2-cyano-5-phenyl-2,4-pentadienoate and two of its derivatives," <i>An. Assoc. Bras Quim.</i> 30:113-116 (in Portuguese with English abstract) and ACS Abstract AN 96:34120.
CV	Enk, A.H. and Knop. J. (2000). "T-Cell Receptor Mimic Peptides And Their Potential Application In T-Cell Mediated Disease" <i>Int Arch Allergy Immunol</i> 123:275-281.
CW	Eugster, C.H. et al. "New type condensation reactions with isoxazoles-an extension of the Ritter reaction." <i>Chemical Abstracts</i> 59:585b.
CX	Fausser A.A. and Messner H.A. (1978). "Granulocythropoietic Colonies In Human Bone Marrow, Peripheral Blood, And Cord Blood," <i>Blood</i> , 52(6), 1243-1248.
CY	Foucaud, A. and Bakouetila, M. (1987). "Facile Epoxidation of Alumina-Supported Electrophilic Alkenes and Montmorillonite-Supported Electrophilic Alkenes with Sodium Hypochlorite," <i>Synthesis</i> 9:854-856.

Examiner Signature		Date Considered	
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Sheet	4	of	7	Attorney Docket Number	LYMF-P04-007

CZ	Freedman, M.H. et al. (1992). "Central Role Of Tumour Necrosis Factor, GM-CSF, and Interleukin 1 In The Pathogenesis Of Juvenile Chronic Myelogenous Leukaemia," Br J Haematol. 80(1):40-48.
CA1	Freeman, F. (1980). "Properties and Reactions of Ylidenemalonitriles," Chem. Rev. 80:329-350.
CB1	Frohardt, R. P. et al. "Chemistry of streptimidone. A new antibiotic," Chemical Abstracts 54:3192h.
CC1	Gazit, A. et al. (1991). "Tyrphostins. 2. Heterocyclic And Alpha-Substituted Benzylidenemalonitrile Tyrphostins As Potent Inhibitors Of EGF Receptor and ErbB2/neu Tyrosine Kinases," J. Med. Chem. 34:1896-1907.
CD1	Grinsteins, V. and Serina, L. (1963). "Cyanothioacetamide and its derivatives," Chemical Abstracts 60: 5391h.
CE1	Halestrap, A.P. (1975). "The Mitochondrial Pyruvate Carrier. Kinetics and specificity for substrates and inhibitors," Biochemical Journal 148(1):85-96.
CF1	Halestrap, A.P. (1976). "The Mechanism of the Inhibition of the Mitochondrial Pyruvate Transporter by alpha-Cyanocinnamate Derivatives," Biochemical Journal 156(1):181-183.
CG1	Hassan, H.H. et al. (1986). "Some reactions of 2-Cinnamylidene and 2-Benzylidene-1,3-Indandione," Pak. J. Sci. Ind. Res. 29:105-107.
CH1	Ho, Y.W. and Wang, I.J.J. (1995). "Studies on the Synthesis of Some Styryl-3-cyano-2(1H)-pyridine-thiones and Polyfunctionally Substituted 3-Aminothieno[2,3-b]-pyridine Derivatives," Journal of Heterocyclic Chemistry 32(3):819-825.
CI1	Hu, Weixiao et al. (1985). "Differential pulse polarography on bifurcate conjugate systems. I. Homologous progressive change of the peak potential," Fenzi Kexue Yu Huaxue Yanjiu 5(1):87-92, ACS Abstract AN 104:5348 CA only.
CJ1	Ichimura, K. et al. (1987). "Photosensitive Resins Containing p-Dimethylaminobenzylidene Derivatives and Diphenyliodonium Salt as Photoinitiators," Journal of Applied Polymer Science 34(8):2747-2756.
CK1	Iizawa, T. et al. (1983). "Studies of photopolymer. XX. Synthesis of photosensitive polymers with pendant photosensitive groups and photosensitizer groups," Kobunshi Ronbunshu 40:425-432 QD 281 P6 K752 (in Japanese with English abstract) and ACS Abstract AN 99:123029 CA.
CL1	Jukhnovskii, I. and Binev, I. (1977). "Infrared Spectra and Structure of Carbanions - XIV. Isomeric Carbanionic adducts of some substituted cyano-polyenes," Bulletin des Societes Chimiques Belges 86(10):793-798.
CM1	Kantam, M.L. et al. (1998). "Aldol and Knoevenagel condensations catalysed by modified Mg-Al hydrotalcite: a solid base as catalyst useful in synthetic organic chemistry," Chemical Communications (Cambridge England) 9:1033-1034.
CN1	Kasyapa, C. S. et al. (1999). "Regulation of IL-15-Simulated TNF-alpha Production by Rolipram," Journal of Immunology 163:2836-2843.
CO1	Konwar, D. et al. (1998). "Organic Synthesis with Anion-exchange Resins: Reaction of Imines with Active Methylene Compounds," Journal of Chemical Research Synopsis 6:342-343.
CP1	Krishan, K. and Singh, N. (1974). "Reactions of Open-Chain Conjugated Nitrones with Active Methylene Compounds," J. Indian Chem. Soc. 51(9): 802-804.
CQ1	Kryshtal, G.V. et al. (1980). "New possibilities for the synthesis of polyfunctional cyclopropanes under interphase catalysis conditions in a liquid-solid phase system," Izvestia Akademii nauk SSSR Seria khimicheskaja 10:2420-2423 (in Russian) and ACS Abstract AN 94:46812 CA.
CR1	Kryshtal, G.V. et al. (1979). "Phase-Transfer Catalysis of the Michael Addition to alpha,beta-Unsaturated Aldehydes," Synthesis 2:107-109.

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CS1	Kurkovskaja, L.N. et al. (1995). "H and ¹³ C NMR Spectrum-Structure correlations for a series of polyene compounds," Zhurnal Strukturnoi Khimii, English, Journal of Structural Chemistry 36(4):638-642.
CT1	Lechat, J.R. et al. (1981). "Ethyl 2-Cyano-5-phenyl-(2E,4E)-pentadienoate," Acta Crystallographica Section B: Structural Science B37(7):1470-1471.
CU1	Li, J-T et al. (1999). "Synthesis of ethyl alpha-cyanocinnamates under ultrasound irradiation," Ultrasonics Sonochemistry 6(4):199-201.
CV1	Liang, D. et al. (1981). "Structural effect in cross conjugative systems. IV. Properties of alpha-carboxyphenylpolyenic cyanides and the quantum chemical," Fenzi Kexue Xuebao 1:17-30 (in Chinese with English abstract) and ACS Abstract AN 96:180289 CA.
CW1	Lin, T. et al. (1993). "Transition metal polyhydrides-catalyzed addition of activated nitriles to aldehydes and ketones via Knoevenagel condensation," Journal of Organometallic Chemistry 448(1-2): 215-218.
CX1	Martelli, J. and Carrie, R. (1977). "Reaction of cinnamylidenemalonate esters or cinnamylidene cyanoacetic esters and the corresponding malononitriles with diazomethane; thermolysis of the corresponding pyrazolines," Bulletin de la Societe Chimique de France 11-12, Pt. 2:1182-1186 (in French) and ACS Abstract AN 89:43222 CA.
CY1	Martelli, J. et al. (1973). "Stereospecific methylation of cinnamylidenecyanoacetic acid esters and cinnamylidenemalononitrile using diazomethane," Comptes Rendus de l'Academie des Sciences Serie IIc:Chimie (C.R. Acad. Sci. Ser. C.) 276:523-525 (in French) and ACS Abstract AN 78:135492 CA.
CZ1	Martelli, J. et al. (1978). "Orientation and primary site in the addition of diazomethane on some substituted butadienes. Theoretical interpretation," Nouv. J. Chim. 2:609-613 and ACS Abstract AN 90:120818 CA.
CA2	Matsuoka, M. et al. (1990). "Cyanovinylheteroaromatics for Organic Nonlinear Optics," Molecular Crystals and Liquid Crystals Science and Technology Section A 182A:71-79.
CB2	Messner H. A. and Fauser, A. A. (1980). "Culture Studies Of Human Pluripotent Hemopoietic Progenitors," Blut, 41(5): 327-333.
CC2	Minami, T. et al. (1983). "Synthesis of Butadienylphosphonates containing electronegative substituents and their synthetic applications to functionalized cyclopentenylphosphonates," Tetrahedron Lett. 24(8):767-770.
CD2	Minami, T. et al. (1985). "Cycloaddition of Diazomethane to Butadienylphosphonates. A New Approach of Functionalized Pentadienylphosphonates and Pyrazoles," Chem. Lett. 1985 8:1099-1102.
CE2	Mohan, S. and Sandhu, J.S. (1971). "Addition of Diazomethane on Strongly Electrophillic Olefins," Journal of the Indian Chemical Society 48(3):305-306.
CF2	Nesterov, V.N. et al. (2000). "trans,trans-2-Cyano-5-(4-methoxy-phenyl)penta-2,4-dienethioamide," Acta Crystallographica Section C: Crystal Structure Communications C56(1):88-89.
CG2	Nguyen, K.S. et al. (1974). "Sulfur heterocyclic compounds. LXIX. Synthesis and structure of variously substituted 2-amino-5-thioaroylthiophenes," Bulletin de la Societe Chimique de France 3-4 Pt. 2:471-474 (in French) and ACS Abstract AN 81:63423 CA.
CH2	Ooms, P. et al. (1976). "Chemistry of Tetra-alkoxyethenes. Part VII. Thermal [2+2] Cycloadditions with 1-Cyanobutadienes" Journal of the Chemical Society, Perkin Transactions 1 14: 1538-1543.
CI2	Piskov, V. B. (1967). "Tetracycline analogs. I. General preparation of beta-aryl-beta1-carboxymethylpimelic acids" Zhurnal Organicheskoi Khimii 3(2):416-419 (in Russian) and ACS Abstract AN 66:115418 CA.
CJ2	Popp, F. and Catala, A. (1961). "Synthesis of 3-hydrozypyridines. II. The preparation of unsaturated cyano esters and their reaction with diazo-methane" J. Org. Chem. 26(8):2738-2740.

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			Filing Date	September 22, 2006	
			First Named Inventor	Chaim M. Roifman	
			Art Unit	Not Yet Assigned	
			Examiner Name	Not Yet Assigned	
			Attorney Docket Number	LYMF-P04-007	
Sheet	6	of	7		

	CK2	Prajapati D. and Sandhu, J.S. (1992). "Bismuth(III)chloride as a New Catalyst for Knoevenagel Condensation in the Absence of Solvent" Chemistry Letters. 10:1945-1946.	
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	CM2	Prajapati, D. et al. (1993). "Cadmium Iodide as a New Catalyst for Knoevenagel Condensations," J. Chem. Soc., Perkin Transactions 1: 739-740.	
	CN2	Puccetti, G., Bott, S.G. (1998). "Efficient two-photon-induced fluorescence in a new organic crystal" J. Opt. Soc. Am. B. 15(2):789-901.	
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	CP2	Rao, P.S. and Venkataratnam, R.V. (1991). "Zinc Chloride as a new catalyst for Knoevenagel condensation" Tetrahedron Letters 32:5821-5822.	
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	CX2	Shen, Y. and Yang, B. (1989). "Synthesis of alpha,beta-unsaturated cyanoesters promoted by tri-n-butylarsine" Synthetic Communications 19(17):3069-3075.	
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Examiner Signature			Date Considered

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Sheet	7	of	7	Attorney Docket Number	LYMF-P04-007

	CH3	Yasuda, Heinosuke; Sakao, Toshihisa; Yamadi Yoichi (1995). "The Knoevenagel condensation between aromatic aldehydes and ethyl cyanoacetate catalyzed by KF-betaine catalyst" Utsunomiya Daigaku Kyoikugakubu Kiyo, Dai-2-bu 45:33-41 (in Japanese with English Abstract) and ACS Abstract AN 124: 29360CA.	
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